
QUALIFICATIONS

- Experienced in capturing (using various equipment types), handling, tagging (external, internal and radio) and relocating (sonar, radio, observational) fish and birds
- Familiar with FERC licensing and compliance process
- Adept at writing, reporting, proof-reading and document quality control
- Able to operate Trimble pathfinder GPS unit
- Certified in ACOE Wetlands delineation
- Experienced in assisting and performing Phase I site assessments
- Experienced at collecting water and sediment samples
- Experienced in capturing/mist netting, handling, banding, re-sighting, and collecting blood from waterfowl and passerines, some experience handling raptors
- Experienced as a surveyor's assistant
- Able to operate a wide range of computer software including MicroStation and art software
- Experienced in performing basic PCR/RAPD, gel electrophoresis, karyotyping, electron microscopy, and darkroom procedures
- Experienced in trailering and operating motor-boats, hiking, snowshoeing, backpacking, low-impact camping, canoeing, kayaking, and basic rock-climbing

PROFESSIONAL EXPERIENCE & ACCOMPLISHMENTS

FISHERIES AND WILDLIFE STUDIES

- Loon Monitoring and Management (FPL Energy): Seven years of experience conducting loon monitoring and management on hydro impoundments in Maine. Also responsible for compiling data and report writing.
- Indian Pond Project (CMP – FPL Energy): Assisted in the capture, processing, implantation of radio transmitters, and subsequent radio tracking of salmonids on the upper Kennebec River below Harris Station.
- Moosehead and Richardson Lakes Creel Census (CMP – FPL Energy): Conducted creel census surveys for the assessment of population and overall health of salmonids in the area.
- Gulf Island Pond and Fort Halifax (CMP – FPL Energy): Gathered dissolved oxygen data, as well as water quality samples on a regular basis from both sites.
- Sampling Wildlife Bioindicators For Mercury Contamination (Biodiversity Research Institute: CMP, FPL Energy, USFWS, Maine DEP, and Maine DIF&W, and others in New England and Canada): Assisted and Independently lead crews in the capture, banding, bleeding, processing, and release of Common Loons and Mergansers on Aziscohos, Flagstaff, Indian, Moosehead, Richardson, and Wyman Lakes (as well as many others in ME, NH, VT, NY, and Canada) for mercury analysis. Conducted, with one assistant, similar procedures on Belted Kingfishers on the Kennebec and Androscoggin Watersheds.
- Loon Observation (Biodiversity Research Institute: CMP, FPL Energy, USFWS, Maine DEP, and Maine DIF&W): Participated in extensive surveys and observation of Common Loons on Flagstaff Lake.

- Sonar Tracking of Endangered Shortnose Sturgeon (Normandeau Associates: Bath Iron Works): Independently performed continuous location and monitoring (using VR60 tracking device) of sonar-tagged Shortnose Sturgeon during underwater blasting operations. Assisted in collection of stationary receivers from buoys, by boat, and downloaded them on a regular basis.
- Clam Flat Monitoring (Normandeau Associates): Collected condition data over time of clam-flats lying downstream of a major dredging operation. Work was conducted in winter via airboat.
- Herring Population Study (Normandeau Associates): Assisted team in the capture (by jigging, cast netting, box netting, gill netting, and beach seining) processing, and tagging of large numbers of Herring for population studies on the Erie Canal, in New York.
- Neotropical Migrant Decline Studies (Plymouth State College): Under the supervision of Dr. Leonard Reitsma and colleagues, assisted in the capture (by mist net), handling, banding, and subsequent detailed observation of Northern and Louisiana Waterthrush in the mangrove swamps and riparian habitats of Puerto Rico.

LICENSING/ COMPLIANCE/ REPORTING/ STUDIES

- FERC Compliance: Regulatory Reference Material Compilation (FPL Energy): Collected, compiled, and periodically update all compliance-related documents for 26 Maine hydroelectric projects.
- Exhaustive Literature Searches (NYPA, Maine DEP, and others): Performed exhaustive literature searches for various clients on a wide range of subjects, from wildlife management issues, to the impacts of common facilities maintenance and operation practices on the environment.
- Reporting on FERC compliance issues (FPL Energy): Prepared various interim reports (for several projects), and 5-year report (for submittal to FERC) on common loon monitoring and management on Wyman Lake, as prescribed by its FERC license.
- Proofreading & Quality Control (Chelan PUD, Chelan, WA): Assisted in proofing and performing quality control on Preliminary Draft Environmental Assessment to FERC for the relicensing of two hydro facilities in Washington State. Also involved in proof-reading several other documents and reports for quality control prior to submittal to FERC.

OTHER EXPERIENCE

- DNA Analysis (Biodiversity Research Institute): Instigated, implemented, and conducted isolation of DNA from Common Loon blood samples, and produced Random Amplified Polymorphic DNA (RAPD) fingerprints for a study of genetic diversity and variability between populations.
- Team Leadership: Lead Earthwatch volunteers in Loon observation studies, lead capture crews and teams for nonlethal biotic sampling studies.
- Teaching (Plymouth State College): Tutored Biology for two years, Tutored and teacher assisted Anatomy/Physiology labs for two years (occasionally teaching class in absence of professor), ran evening help session in A/P for two years, was awarded A/P fellowship 1997, assisted Tropical Biology class group in Puerto Rico in 1997.



Shearon J. Murphy

Environmental Specialist

- Marketing (Biodiversity Research Institute): Instigated, partially wrote and designed, and illustrated “Adopt A Loon” program package. Also designed several logos, illustrations, and an advertisement still in use.
- Artist: Possess artistic talent and training: adept at illustration, graphic design, carving, and sculpting.
- Education of Others: Experience in tutoring, teaching, and oral presentation.

EDUCATION

Bachelor of Science in Biology Plymouth State College, Plymouth, New Hampshire, 1997,
Magna Cum Laude

EMPLOYMENT HISTORY

E/PRO ENGINEERING & ENVIRONMENTAL CONSULTING, LLC – Augusta, ME

2002 – Present *Environmental Specialist*

1999 – 2002 *Environmental Technician*

BIODIVERSITY RESEARCH INSTITUTE – Freeport, ME

Summers 1997 – 1999 *Seasonal Field Technician*

NORMANDEAU ASSOCIATES – Yarmouth, ME

1998 – 1999 *Temporary Field Technician*